

TX station: 6xAkg77-R

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	6xAkg77-R
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	98.000
Antenna system central frequency (MHz)	98.000
Antenna base diagrams type 1	LABEL ITALY-AKG_77-R CIRC. POL. DIREC. WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	C
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	10.0
Mast cross section (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	AKG_77-R CIRC. POL.
Band start(MHz)	98
Band stop(MHz)	98
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	C
Vertical dist (cm)	260
Height (cm)	120
Width (cm)	120
Thickness (cm)	200
Weight (Kg)	19
Maximum power (KW)	3
Gain (dBd)	0.85
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

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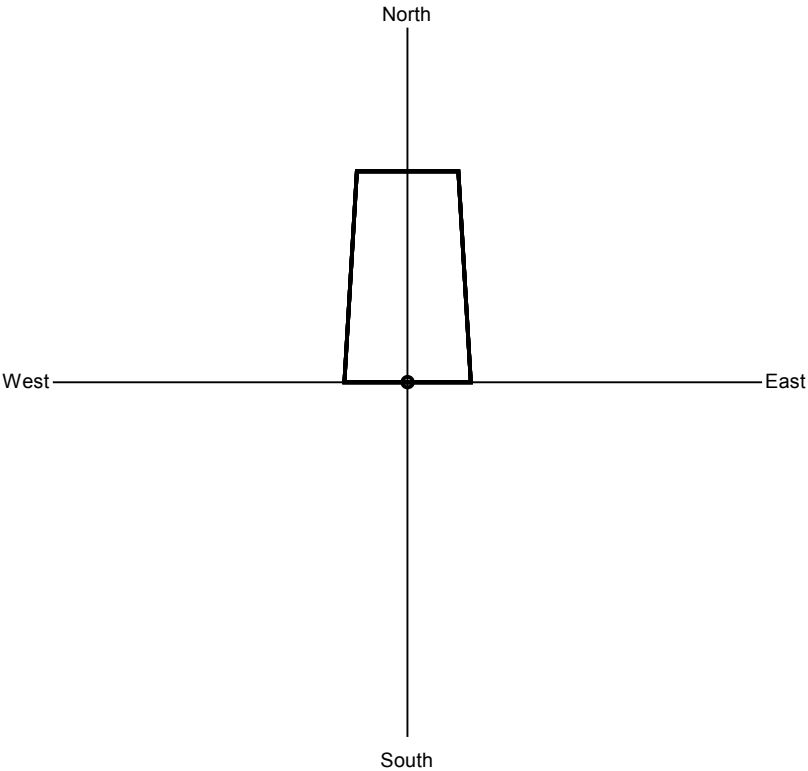
Geometr. and electrical data of Antenna System

	<i>Power</i> <i>(%)</i>	<i>Tilt</i> <i>(°)</i>	<i>Az.</i> <i>(°/N)</i>	<i>Phase</i> <i>(°)</i>	<i>V dist.</i> <i>(m)</i>	<i>Scr-d</i> <i>(cm)</i>	<i>Scr-Az</i> <i>(°/N)</i>	<i>Rot.</i> <i>(1÷4)</i>	<i>Type</i> <i>(1÷2)</i>	<i>L cables</i> <i>(cm)</i>	<i>Car. phase</i> <i>(°)</i>
1	16.667	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
2	16.667	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
3	16.667	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
4	16.667	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
5	16.667	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
6	16.667	0	0	0 +0.0	-6.50	0.0	0.0	1	1	0.0	0.0

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Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	6
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1000.00
F. Theor. maximum gain (dBd)	8.63
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	8.63
I. Compensation losses (dB)	0.35
J. Effec. max gain [H - I] (dBd)	8.28
K. Effec. max gain (times)	6.73
L. Effec. max power [E * K] (KW)	6.7250
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	310

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	7.6	90	6.2	180	-4.3	270	6.2
10	7.6	100	5.0	190	-4.1	280	7.2
20	7.7	110	3.4	200	-3.8	290	7.7
30	7.9	120	1.7	210	-3.0	300	8.2
40	8.1	130	-0.1	220	-1.6	310	8.3
50	8.3	140	-1.6	230	-0.1	320	8.1
60	8.2	150	-3.0	240	1.7	330	7.9
70	7.7	160	-3.8	250	3.4	340	7.7
80	7.2	170	-4.1	260	5.0	350	7.6

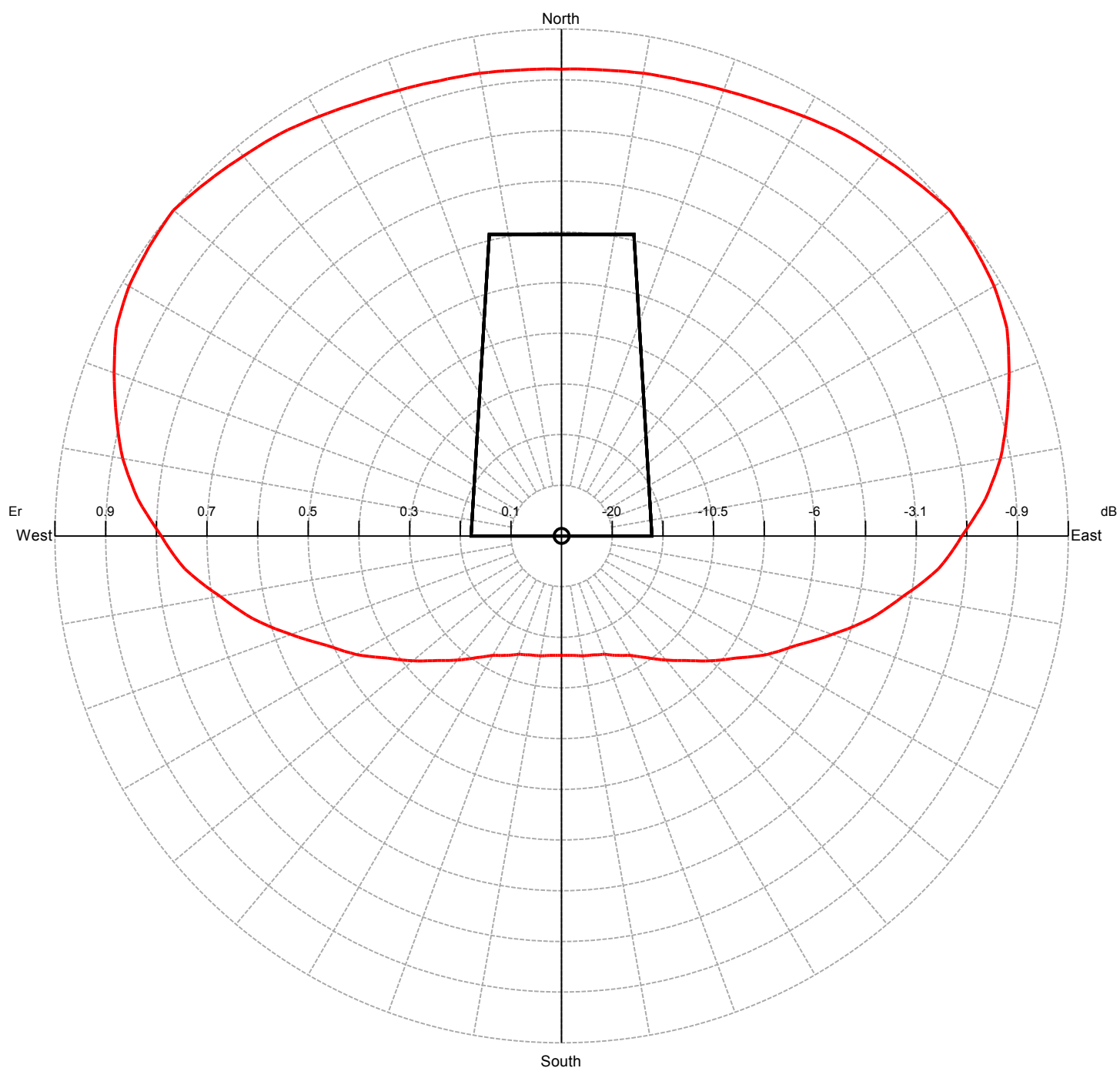
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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 8.28

ERP T.Max(KW): 6.725 ERP E.Max(KW): 6.725

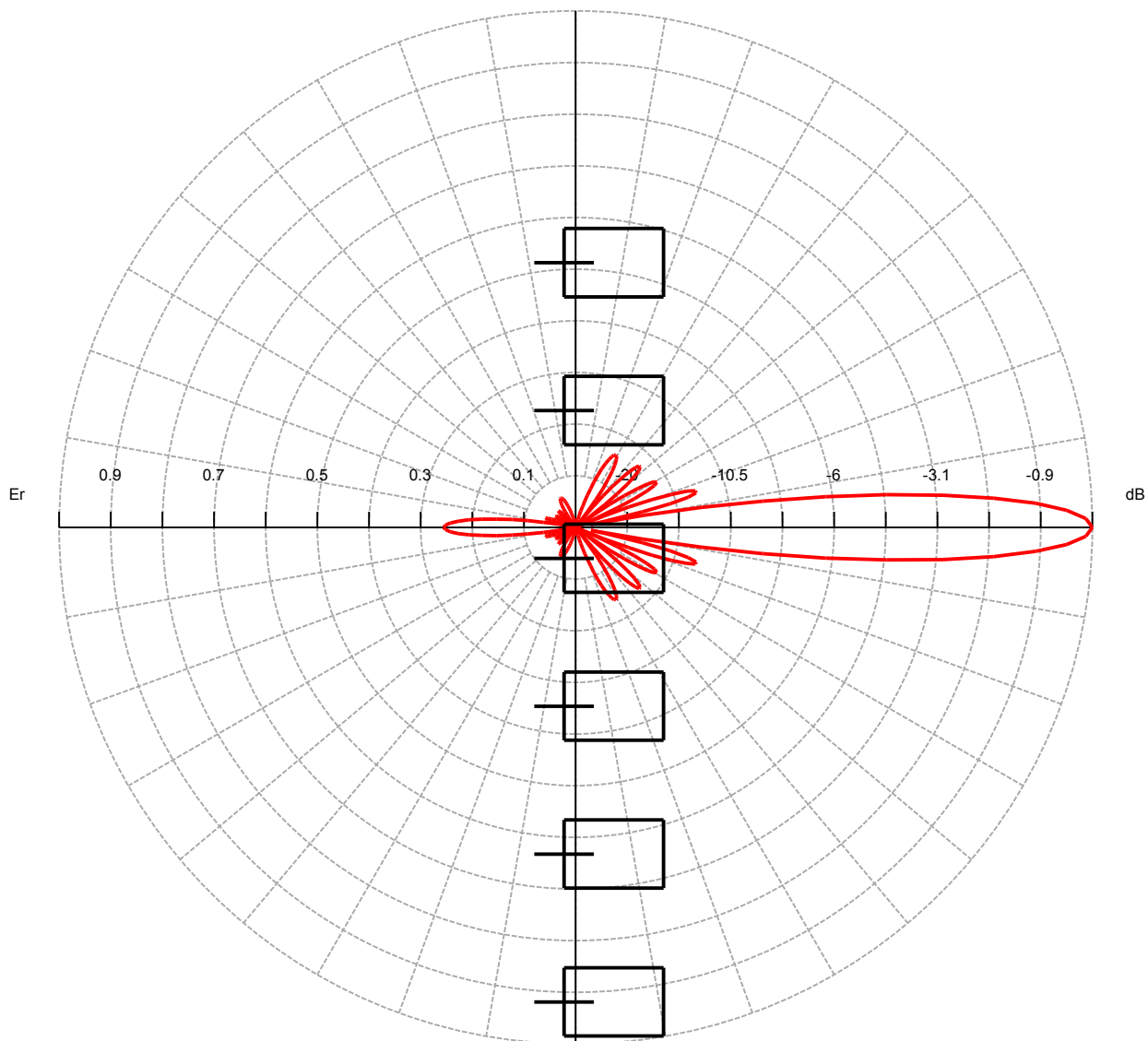
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 7.56

ERP T.Max(KW): 5.7045 ERP E.Max(KW): 5.7045